

Date: Mon, 8 Feb 93 17:36:18 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #187
To: Info-Hams

Info-Hams Digest Mon, 8 Feb 93 Volume 93 : Issue 187

Today's Topics:

73s (Not 73)
920 MHz oscillators
Anyone ever use a RS HTX-100 with a transverter?
ARES Training Videos??
AURORA WATCH: Middle Latitude Auroral Activity Watch
Hamfest in Orlando, Fla
Help CW practice
Home building PTOs
How is 20 WPM code test sent? (3 msgs)
Latest-issued callsigns
MATCHING TUBES ****HOW ?***** (2 msgs)
NiMH Batteries
Oscillator in NE602, help!
Real Hams Pass British Exams?
RF exposure
WANTED: TCP/IP setup for club station
Why all the Bulletins?
Working the RS-12 satellite
You gotta look on the bright side of life

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 7 Feb 93 17:56:28 GMT
From: news.cerf.net!netsys!agate!biosci!uwm.edu!cs.utexas.edu!sdd.hp.com!ncr-sd!
ncrcae!ncrhub2!ncrgw2!psinnntp!arrl.org@network.UCSD.EDU
Subject: 73s (Not 73)

To: info-hams@ucsd.edu

In rec.radio.amateur.misc, alanb@hpnmdla.sr.hp.com (Alan Bloom) writes:

>In rec.radio.amateur.misc, dubner@spk.hp.com (Joe Dubner) writes:

>>Have you ever noticed the ingenious excuses that a ham will use
>>when he wants to terminate a QSO. Rather than hurt the QSOee's feelings
>>by saying he'd rather read yesterday's newspaper than continue the QSO
>>any longer, a ham will find some "crisis" needing his attention.

>Well, there's always the trusty "Gotta go to the sandbox."

>AL N1AL

Of course, there is an effective counter to that one -- "OK, I
will wait." :-).

Ed Hare, KA1CV
American Radio Relay League
225 Main St.
Newington, CT 06111
(203) 666-1541 - voice
ARRL Laboratory Supervisor
RFI, xmtr and rcvr testing

ehare@arrl.org

You will never put the puzzle together
if you keep putting all the pieces
back in the box.

Date: Mon, 8 Feb 1993 20:26:37 GMT

From: usc!howland.reston.ans.net!ux1.cso.uiuc.edu!cs.uiuc.edu!sparc0b!
u2203@network.UCSD.EDU

Subject: 920 MHz oscillators

To: info-hams@ucsd.edu

How are 920 or so MHz oscillators built? That is, do they start with a
lower frequency signal and multiply it, or have a very large resonant
cavity?

Perhaps I should ask how the oscillator in cellular phones is built,
since they aren't too far from 920MHz in frequency.

-Nicolas Dade

Date: 8 Feb 93 18:35:56 GMT

From: olivea!spool.mu.edu!howland.reston.ans.net!bogus.sura.net!udel!gvls1!gvlf9-q!rossi@ames.arpa
Subject: Anyone ever use a RS HTX-100 with a transverter?
To: info-hams@ucsd.edu

At only \$159, I decided to pick up one of these Radio Shack 10 meter radios. I was thinking of using it with a set of 2 meter and 70 cm transverters I have.

Anyone try this yet?

Since the transverters have separate 10 meter input and output connections I was figuring I would need to modify the transceiver to add a direct connection to the receiver input. Other than that, I figure it should work fine ... except that I would be limited to upper sideband only.

I am still studying the schematic they provided to see if it would be feasible to add a USB/LSB switch.

Are there any mods out yet for this radio?

=====

Pete Rossi - WA3NNA

rossi@VFL.Paramax.COM

Paramax Systems Corporation - a Unisys Company
Valley Forge Engineering Center - Paoli, Pennsylvania

=====

Date: 8 Feb 93 17:39:46 GMT
From: ogicse!uwm.edu!spool.mu.edu!torn!newshost.uwo.ca!uwovax.uwo.ca!ppddgc@network.UCSD.EDU
Subject: ARES Training Videos??
To: info-hams@ucsd.edu

Does anyone know of videotapes available on Amateur Radio, especially ARES training or operating procedures in general?

Any information would be helpful.

Dave Colvin VE3ZDC
ARES DEC London Ontario
University of Western Ontario
ppddgc@uwocc1.uwo.ca

Date: 8 Feb 93 21:21:35 GMT
From: news-mail-gateway@ucsd.edu
Subject: AURORA WATCH: Middle Latitude Auroral Activity Watch
To: info-hams@ucsd.edu

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MIDDLE LATITUDE AURORAL ACTIVITY WATCH

ISSUED: 21:00 UT, 08 FEBRUARY

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VALID UNTIL: 19:00 UTC ON 10 FEBRUARY

MODERATE RISK PERIOD: 08 - 10 FEBRUARY (UT days)

PREDICTED ACTIVITY INDICES FOR NEXT 3 DAYS: 33, 25, 15 (09 - 11 FEB)
(INPUT INTO THE PREDICTIVE AURORA SOFTWARE *)

POTENTIAL MAGNITUDE OF MIDDLE LATITUDE AURORAL ACTIVITY: MODERATE

EXPECTED LUNAR INTERFERENCE: MODERATE TO HIGH

OVERALL OPPORTUNITY FOR OBSERVATIONS FROM MIDDLE LATITUDES: FAIR TO POOR

AURORAL ACTIVITY MAY BE OBSERVED APPROXIMATELY NORTH OF A LINE FROM...

THE EXTREME NORTHERN U.S. STATES.

ACTIVITY MAY ALSO BE OBSERVED APPROXIMATELY NORTH OF A LINE FROM...

NORTHERN U.K. TO THE NORTHERN EUROPEAN REGIONS TO NORTHERN RUSSIA.
THIS IS NOT EXPECTED TO BE A PARTICULARLY GOOD EPISODE OF ACTIVITY
FOR AUSTRALIAN OR NEW ZEALAND OBSERVERS.

* Contact: Oler@Rho.Uleth.CA or Coler@Solar.Stanford.Edu for more information
regarding the Auroral Activity Prediction and Simulation Software.

SYNOPSIS...

Auroral activity has become enhanced over the last 12 to 24 hours.
Activity is expected to remain enhanced for approximately the next 24
hours. The increased activity may occasionally become sufficiently
luminous to be observed over the upper middle latitude regions. The
almost full-phase of the moon will significantly hamper attempts to view

This WATCH will remain active until 19:00 UT on 10 February when it will either be updated or allowed to expire.

Date: 8-FEB-1993 13:33:59

I need to know where in Orlando and on witch frequency (2m or 70cm) radio-guidage will be available?

VE2SDQ

I have been practicing CW about 15 min. a day here on my computer terminal. I seem to be stuck at 9 wpm. I practice at ~13 wpm. Every time I hit an e my brain just loses it. I don't have enough time to listen, write the "E" down, and by that time I've missed the next letter. What do I need to do?

--David C. Adams Statistician Cray Research Inc. dadams@cray.com

Old Sourdoughs never die. They just ferment away.

Date: 8 Feb 93 23:14:45 GMT
From: news-mail-gateway@ucsd.edu
Subject: Home building PTOs
To: info-hams@ucsd.edu

Someone said: PTOs are an alternative [to getting good variable capacitors for VFOs]

Are there any commercially available unwound PT cores/mechanical assemblies available for the amateur these days? Or do I have to use my ingenuity :-)

72/73 Kevin, N7WIM / G8UDP
a-kevinp@microsoft.com

Date: 8 Feb 93 18:23:31 GMT
From: olivea!spool.mu.edu!howland.reston.ans.net!bogus.sura.net!udel!gvls1!gvlf9-q!rossi@ames.arpa
Subject: How is 20 WPM code test sent?
To: info-hams@ucsd.edu

A friend hopes to go for his 20 WPM test in the next few weeks was wondering how the test is sent? Is it straight 20 WPM characters and 20 WPM spacing? Or is some kind of Farnsworth method used like they do the 13 WPM tests?

=====
Pete Rossi - WA3NNA

rossi@VFL.Paramax.COM

Paramax Systems Corporation - a Unisys Company
Electronic Systems - Valley Forge Engineering Center - Paoli, Pennsylvania
=====

Date: Mon, 8 Feb 1993 19:59:41 GMT
From: agate!usenet.ins.cwru.edu!magnus.acs.ohio-state.edu!bgsuvax!att!cbnews!jeffj@ames.arpa
Subject: How is 20 WPM code test sent?

To: info-hams@ucsd.edu

In article <1993Feb8.182331.29988@VFL.Paramax.COM> rossi@gvlf9-q.gvl.unisys.com (Pete Rossi) writes:

>A friend hopes to go for his 20 WPM test in the next few weeks was
>wondering how the test is sent? Is it straight 20 WPM characters and
>20 WPM spacing? Or is some kind of Farnsworth method used like they
>do the 13 WPM tests?

Sent just like the 13wpm test only the character speed is 23wpm and the spacing between letters is set at 20 wpm. Also it is just like a typical QSO on the air. The only difference that I really noticed was that it was faster but also easier to copy. By the time you get to 20wpm you have the automatic translating down pat. Good luck to your friend!
73!

Jeff

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| | | |
|---------------------------|--|---|
| Jeff Jones AB6MB | | Nickel Back: What you get when you ask free |
| jeffj@seeker.mystic.com | | agents to give you a million |
| Infolinc BBS 415-778-5929 | | dollars worth of effort. |

Date: 8 Feb 93 21:39:00 GMT
From: dog.ee.lbl.gov!hellgate.utah.edu!caen!uwm.edu!cs.utexas.edu!usc!
hela.iti.org!cs.widener.edu!dsinc!ub!acsu.buffalo.edu!ubvmsb.cc.buffalo.edu!
v111qheg@network.UCSD.EDU
Subject: How is 20 WPM code test sent?
To: info-hams@ucsd.edu

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>A friend hopes to go for his 20 WPM test in the next few weeks was
>wondering how the test is sent? Is it straight 20 WPM characters and
>20 WPM spacing? Or is some kind of Farnsworth method used like they
>do the 13 WPM tests?

This usually depends on your VEC. The local ARRL guys use the tapes with 21 WPM characters spaced out to 20 WPM overall. The W5YI group is flexible and offers exams with Farnsworth spacing. I know of one test where the W5YI group made up an exam with 26 WPM characters spaced out to 20, so best to check with your group.

73,
Peter kb2nmv

Date: 8 Feb 93 20:47:28 GMT
From: owl@net.rice.edu!rbook@rice.edu
Subject: Latest-issued callsigns
To: info-hams@ucsd.edu

Quite a while back someone posted a list of the most recently-issued callsigns (i.e., where the FCC was in the sequence) for the different call areas and callsign types. There was mention of a phone number from which this information could be obtained.

Does anyone know this phone number?

--Robert Book KD6NRI
 rbook@rice.edu

Date: Mon, 8 Feb 1993 18:25:35 GMT
From: pacbell.com!amdahl!amdcad!angelo!clark@network.UCSD.EDU
Subject: MATCHING TUBES *****HOW ?*****
To: info-hams@ucsd.edu

rerickso@cwis.unomaha.edu (Ronald D. Erickson) writes:

>As I remember it, what you are doing is matching current
>drawn by the tubes. I recall, you have to insert a
>high voltage capacitor to separate the grid and/or screen
>connections and then use a ten turn pot to adjust tube
>current on one or both tubes to match the current flow
>in the electron tubes.

>73,

>Ron
>AK0N

Also known as "biasing" the finals. Check with anybody that has a manual for a mid-to-late '60s manual for any tube-final Kenwood, Yaesu, Icom, or Swan (or other HF transmitter/transceiver).

If I remember, the Swan manual(s) had a pretty good description of biasing the finals.....

More memory flash....

Make sure that the radio has a PAIR of final amplifier tubes.
Most common configuration was a pair of 6146's. I think that the
same principle applies to musician-style applications (I'm a HAM _AND_
a musician.....)

Brad
clark@brahms.amd.com

Date: 8 Feb 93 22:14:13 GMT
From: ogicse!uwm.edu!ux1.cso.uiuc.edu!rtaylor@network.UCSD.EDU
Subject: MATCHING TUBES ****HOW ?*****
To: info-hams@ucsd.edu

spankey@blackstone.eece.unm.edu (His Spanknesss) writes:
>I am looking for information on matching tubes for a guitar or audio amp.
>I figured you radio guys were probably the smartest.
>Can you match tubes like 6L6's on a tube tester?
>I have access to some Transformers and load resistors,could I build an audio
>amp for testing tubes under load?
>What is compaired when matching tubes?
>I have access to about 200 Sovetec 6L6's and would like to make matched sets.
>ANY INFO WOULD BE GRACIOUSLY ACCEPTED.

Two things that you can match on a tube tester is the transconductance at
a given bias, which is probably the most important, and reserve emmision. If
these two match pretty well, you should be OK. You can also play with the
load resistor on some tube testors to get some other data points. All this
isn't as good as measuring the actual sinewave outputs at various power levels
in the amplifier, but should come fairly close. -K9ALD

Date: Mon, 08 Feb 1993 18:24:18 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!cs.utexas.edu!tamsun.tamu.edu!
news.utdallas.edu!corpgate!brtph560!batph8!batph39!jvogt@network.UCSD.EDU
Subject: NiMH Batteries
To: info-hams@ucsd.edu

Does anyone know how NiMH batteries compare to lithium batteries in
power density?

John,
KM4OB

Date: Mon, 8 Feb 1993 19:53:53 GMT
From: pacbell.com!att-out!cbnewsd!cbnewsc!cbfsb!cbnews!cbnewsm!jeffj@ames.arpa
Subject: Oscillator in NE602, help!
To: info-hams@ucsd.edu

I am starting to build a small DC receiver for 40 meters and I pretty much have a grip on everything except how to chose components for the NE602's oscillator. I have seen 2 schemes for it both using a 365pf variable capacitor. I have a 25pf variable cap that I would like to use instead. As all I want to do is cover the CW portion of 40 meters I am hoping this will work. Do you first figure out what amount of inductance you would need to make the oscillator oscillate? Is there something I am missing? What is throwing me is that fact both designs that I have seen (Sudden Receiver and Neophyte Receiver) both use a 365pf variable cap. What are some good guidelines to follow for the NE602's oscilattor? Thanks for any help! 73!

Jeff

--

| | | |
|---------------------------|--|---|
| Jeff Jones AB6MB | | Nickel Back: What you get when you ask free |
| jeffj@seeker.mystic.com | | agents to give you a million |
| Infolinc BBS 415-778-5929 | | dollars worth of effort. |

Date: 8 Feb 93 21:19:39 GMT
From: ogicse!uwm.edu!cs.utexas.edu!bcm!lib!oac.hsc.uth.tmc.edu!
jmaynard@network.UCSD.EDU
Subject: Real Hams Pass British Exams?
To: info-hams@ucsd.edu

In article <5084.9302080901@ua.nrb.ac.uk> pdu@unixa.nerc-barry.ac.UK (Paul Jimbo Duncan GW7KES) writes:

|| When I lived there (about 10 yrs ago), only British subjects were allowed
|| to hold British amateur radio licenses.
>Well, you don't necessarily have to have a licence - there's nothing stopping
>you from just taking the City & Guilds 765 exam, just for the certificate!

Mike Martin, WA5LNG, wrote an article in QST a couple of years ago about getting a British ticket. I can assure you Mike isn't a British subject (he's about as good-ol'-boy Texan as they come!), so I guess that rule has changed.

I might go take the test one of these days, if I'm ever over there...

--

Jay Maynard, EMT-P, K5ZC, PP-ASEL | Never ascribe to malice that which can
jmaynard@oac.hsc.uth.tmc.edu | adequately be explained by stupidity.

"begin 666 foo B22!C86XG="!B96QI979E('E0=2!D96-09&5D('1H:7,A"@ ` end"

-- David Charlap

Date: 8 Feb 93 21:28:07 GMT
From: ogicse!uwm.edu!spool.mu.edu!sdd.hp.com!hpscit.sc.hp.com!icon.rose.hp.com!
greg@network.UCSD.EDU
Subject: RF exposure
To: info-hams@ucsd.edu

> If one needs to have a handie talkie for communications,
> I wonder how much of an RF problem one would have using
> a metal pith hat, or a fiber pith hat lined with
> aluminum foil along with mounting a rubber ducky antenna on
> the top of the hat? I have seen similar installations
> at hamfests in the Midwest.

You could even disguise it as a WW-1 German helmet (with the spike on top),
or add a propeller to your pith helmet and put on a clown costume.

: -)

Greg.

Date: Mon, 8 Feb 1993 21:26:20 GMT
From: mintaka.lcs.mit.edu!lynx!random.ccs.northeastern.edu!acm139@yale.arp
Subject: WANTED: TCP/IP setup for club station
To: info-hams@ucsd.edu

The Wentworth Institute of Technology, Boston, MA, station, W1PTC, is
looking into putting up a TCP/IP packet setup, but we need the
equipment. If you have, or somebody you know, has any of the following items
which the club could acquire, please let me know:

ITEMS WANTED:

IBM or compatible, preferably with a hard drive and color monitor
Cheap KISS-able TNC or modem
2m transceiver
2m vertical antenna

Please send replies to:
Scott Ehrlich, WY1Z
wy1z@k1ugm.ma.usa.na (AX.25)
wy1z@splinter.coe.northeastern.edu (Internet)

Thank you very much!

73 de WY1Z

Scott

```
=====
| Scott Ehrlich           Internet: wy1z@splinter.coe.northeastern.edu   |
| Amateur Radio: wy1z      Packet Radio: wy1z@k1lugm.ma.usa.na         |
|                                                                    |
=====
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Date: 8 Feb 93 17:38:22 GMT
From: news-mail-gateway@ucsd.edu
Subject: Why all the Bulletins?
To: info-hams@ucsd.edu

Greetings...

Why are we still seeing all the ARRL Bulletins, the Solar Flare Warnings, The Solar Data Reports, and all the other automatic informational postings in Info-Hams (and by extension rec.radio.misc)? I thought that the creation of rec.radio.info (and the Radio-Info mailing list) was supposed to absorb all of this traffic. All that is going on now is that they go to rec.radio.info *AND* to rec.radio.misc, and I see everything twice.

Could those of you who maintain the information machinery (please, don't get me wrong, I appreciate what you do, and read the postings) only fire once, and then aim at the correct place?

73

```
----- -:!:- -----
Alan V. Cook           Internet: AVCOOK@ananov.remnet.ab.com
Rockwell International   Ham Packet: N7CEU @ WF60
(714) 762-0843          DoD: #0701
                        Alternate Internet: Cookav@catipult.anatcp.rockwell.com
```

Date: Mon, 8 Feb 1993 18:44:15 GMT
From: pacbell.com!att-out!cbfsb!cbnews!cbnewsm!jeffj@network.UCSD.EDU
Subject: Working the RS-12 satellite
To: info-hams@ucsd.edu

I have just started working the RS-12/13 satellite. While it is fun to do, I have been having a heck of a time finding my downlink. Imagine I need a little more practice. Seems that I spend have my time finding it and only have been able to get a quick QSO in. Any hints on this?

Would anyone else to like to have a sked? I worked a friend of mine down in San Diego and we had a nice chat for about 10 minutes. I live in the San Francisco bay area so for you guys on the east coast have to have RS-12/13 a little east of me. It would be fun to get WAS on this satellite. Also has anyone worked it over the horizon using beams? 73!

Jeff

--

| | | |
|---------------------------|--|---|
| Jeff Jones AB6MB | | Nickel Back: What you get when you ask free |
| jeffj@seeker.mystic.com | | agents to give you a million |
| Infolinc BBS 415-778-5929 | | dollars worth of effort. |

Date: 9 Feb 93 00:23:01 GMT
From: news-mail-gateway@ucsd.edu
Subject: You gotta look on the bright side of life
To: info-hams@ucsd.edu

Steve KA0VYB responds to a posting about exciting new rigs for unusual bands:

> Azden AX-21A, AZ-11, and AZ-61
>
> 6m and 10m HTs! (FM only) Azden is now in the HT business and
> their first three offerings are HT's for 2m, 6m and 10m. I've
> seen a lot of net requests over the years for a 10m HT. I
> called for a price and the 2m is \$330, 10m or 6m is \$320.
>
> j-Com MX series
>
> HT's for 80m through 6m! (CW and SSB only) weight: 20oz incl.
> batteries. 2 Watts, single band \$350
>
>
> --Brian, N5PSS
> --brian@amd.com

Just what we need another 2m HT. To bad Azden didn't make those new HT's all modes.....

Steve KA0VYB

I say:

Way to go Steve look on the bright side -- the jcom rigs are tiny (I say a local with a 20m on Saturday) about the same size as a hand-held. And the Azdens might increas activity on 6m.

Accenuate the positive!

72/73 Kevin, N7WIM / G8UDP
a-kevinp@microsoft.com

End of Info-Hams Digest V93 #187
